1125 1125 50 550 1200 50

DRW.029-OC12SFS, 12M, SELF SUPPORT S.C. LIGHT ANGLE STRUC. 6°-15°

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x365mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
14	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
16	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
17	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.029A-OC12SFS, 12M, SELF SUPPORT, S.C. LIGHT ANGLE STRUC. 6°-15° FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x365mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
14	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
16	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
17	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.029B-OC12SFS, 12M, SELF SUPPORT, S.C. LIGHT ANGLE STRUC. 6°-15° FOR QUAIL MAIN CONDUCTOR

DRW:030-OC12SFS, 12M, SELF SUPPORT, SINGLE CIRCUIT
MEDIUM & HEAVY ANGLE STRUCTURES, 16°-90°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.030A-OC12SFS,12M, SELF SUPPORT, S.C. MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.030B-OC12SFS, 12M, SELF SUPPORT, S.C. MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° FOR QUAIL MAIN CONDUCTOR

DRW.031-OC12SFS, 12M, SELF SUPPORT, S.C. SECTION STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Merlin 170.5mm2 ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.031A-OC12SFS, 12M, SELF SUPPORT, S.C. SECTION STRUCTURE FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.031B-OC12SFS, 12M, SELF SUPPORT, S.C. SECTION STRUCTURE FOR QUAIL MAIN CONDUCTOR

DRW.032-OC12SFS, 12M, SELF SUPPORT, S.C. TERMINAL STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

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SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x365mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
18	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
19	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
20	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
21	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.032A-OC12SFS, 12M, SELF SUPPORT, S.C. TERMINAL STRUCTURE FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x365mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
18	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
19	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
20	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
21	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.032B-OC12SFS, 12M, SELF SUPPORT, S.C. TERMINAL STRUCTURE FOR QUAIL MAIN CONDUCTOR

DRW.033-OC12SFS, 12M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x365mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	3	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm ACSR/AW, MERLIN		

DRW.033A-OC12SFS, 12M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE FOR MERLIN MAIN & MERLIN

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12SFS – 12 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 40
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x365mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	3	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	25M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.033B-OC12SFS, 12M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE FOR QUAIL MAIN & QUAIL

DRW.034-OC13SFS, 13M, SELF SUPPORT S.C. LIGHT ANGLE STRUC. 6°-15°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS – 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 41
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x365mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
14	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
16	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
17	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.034A-OC13SFS, 13M, SELF SUPPORT, S.C. LIGHT ANGLE STRUC. 6°-15° FOR MERLIN MAIN CONDUCTOR

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS−01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS − 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20−SDMS−01	Page 41
02	1	Crossarm − L 100x100x12x2400mm L.G.	20−SDMS−02	Fig. 01
03	1	Brace − L 50x50x4x828mm L.G.	20−SDMS−02	Fig. 04
04	1	Brace − L 50x50x4x828mm L.G. With One End Clipped	20−SDMS−02	Fig. 04
05	1	Earthwire Support Plate	20−SDMS−02	Fig. 06
06	3	Line Post Insulator	15−SDMS−01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20−SDMS−02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20−SDMS−02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20−SDMS−02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
11	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
12	1	Machine Bolt, M20x365mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
13	1 Set	Danger Sign Plate Complete With Its Accessories	20−SDMS−02	Fig. 49/50
14	27M	Anti−Climbing Device, Barbed Wire	20−SDMS−02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20−SDMS−02	Fig. 13
16	1 Set	Pole Numbering Base Plate	20−SDMS−02	Fig. 51
17	1 Set	Pole Numbering Plates	20−SDMS−02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.034B−OC13SFS, 13M, SELF SUPPORT, S.C. LIGHT ANGLE STRUC. 6°−15° FOR QUAIL MAIN CONDUCTOR

DRW:035-0C13SFS, 13M, SELF SUPPORT, SINGLE CIRCUIT
MEDIUM & HEAVY ANGLE STRUCTURES, 16°-90°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS	SDCS-01
	Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS – 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 41
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.035A-OC13SFS,13M, SELF SUPPORT, S.C. MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° FOR MERLIN MAIN CONDUCTOR

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SEC DISTRIBUTION CONSTRUCTION STANDARDS	SDCS-01
	Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS – 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 41
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.035B-OC13SFS, 13M, SELF SUPPORT, S.C. MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° FOR QUAIL MAIN CONDUCTOR

DRW.036-OC13SFS, 13M, SELF SUPPORT, S.C. SECTION STRUCTURE

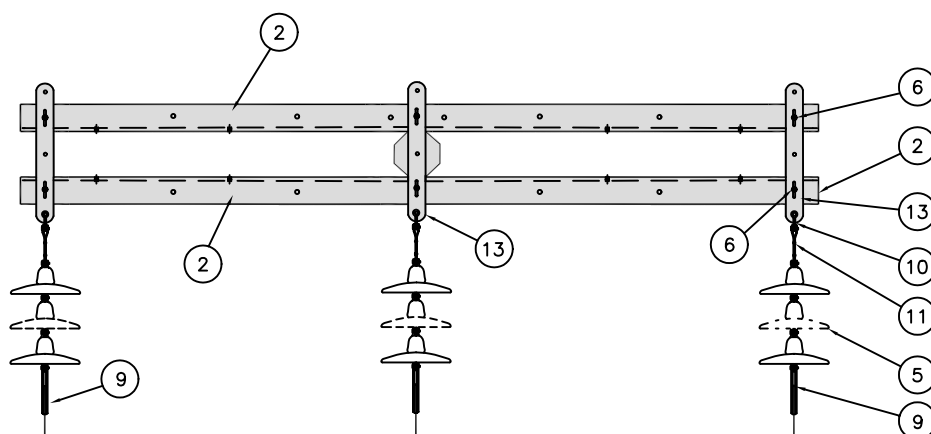
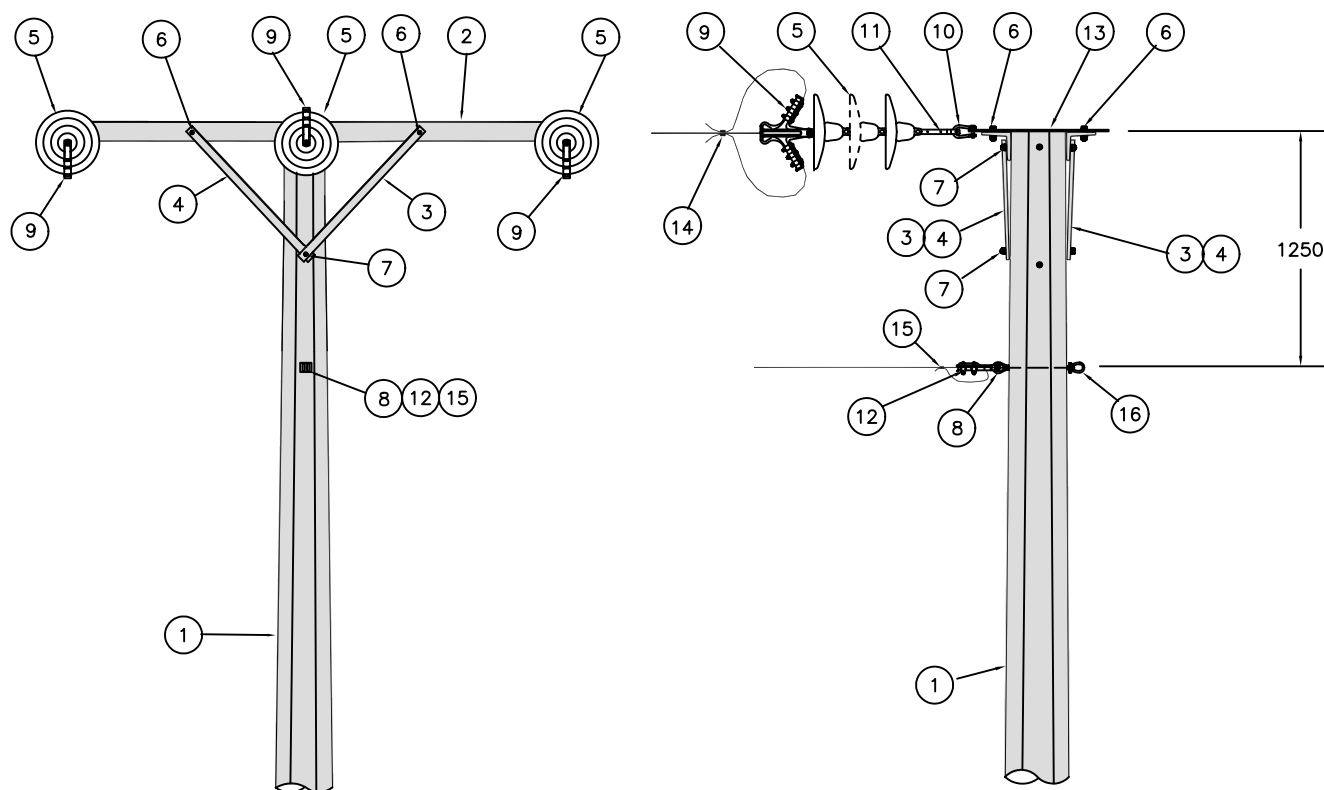
ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS – 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 41
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Merlin 170.5mm2 ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.036A-OC13SFS, 13M, SELF SUPPORT, S.C. SECTION STRUCTURE FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS – 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 41
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.036B-OC13SFS, 13M, SELF SUPPORT, S.C. SECTION STRUCTURE FOR QUAIL MAIN CONDUCTOR

1250

DRW.037-OC13SFS, 13M, SELF SUPPORT, S.C. TERMINAL STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

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Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS – 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 41
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x365mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
18	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
19	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
20	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
21	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.037A-OC13SFS, 13M, SELF SUPPORT, S.C. TERMINAL STRUCTURE FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS – 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 41
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x365mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
18	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
19	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
20	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
21	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.037B-OC13SFS, 13M, SELF SUPPORT, S.C. TERMINAL STRUCTURE FOR QUAIL MAIN CONDUCTOR

1200

800

550

725

DRW.038−OC13SFS, 13M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS – 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 41
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x365mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	3	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm ACSR/AW, MERLIN		

DRW.038A-OC13SFS, 13M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE FOR MERLIN MAIN & MERLIN

Saudi Electricity Company الشركة السعودية للكهرباء

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13SFS – 13 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 41
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x365mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	3	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.038B-OC13SFS, 13M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE FOR QUAIL MAIN & QUAIL

DRW.039-OC14SFS, 14M, SELF SUPPORT S.C. LIGHT ANGLE STRUC. 6°-15°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS−01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14SFS − 14 Meter Steel Pole, Self Support, HDG, Single Circuit	20−SDMS−01	Page 42
02	1	Crossarm − L 100x100x12x2400mm L.G.	20−SDMS−02	Fig. 01
03	1	Brace − L 50x50x4x828mm L.G.	20−SDMS−02	Fig. 04
04	1	Brace − L 50x50x4x828mm L.G. With One End Clipped	20−SDMS−02	Fig. 04
05	1	Earthwire Support Plate	20−SDMS−02	Fig. 06
06	3	Line Post Insulator	15−SDMS−01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20−SDMS−02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20−SDMS−02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20−SDMS−02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
11	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
12	1	Machine Bolt, M20x365mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
13	1 Set	Danger Sign Plate Complete With Its Accessories	20−SDMS−02	Fig. 49/50
14	29M	Anti−Climbing Device, Barbed Wire	20−SDMS−02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20−SDMS−02	Fig. 13
16	1 Set	Pole Numbering Base Plate	20−SDMS−02	Fig. 51
17	1 Set	Pole Numbering Plates	20−SDMS−02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.039A−OC14SFS, 14M, SELF SUPPORT, S.C. LIGHT ANGLE STRUC. 6°−15° FOR MERLIN MAIN CONDUCTOR

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS	SDCS-01
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01	1	OC14SFS – 14 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 42
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x365mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
14	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
16	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
17	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.039B-OC14SFS, 14M, SELF SUPPORT, S.C. LIGHT ANGLE STRUC. 6°-15° FOR QUAIL MAIN CONDUCTOR

DRW:040-0C14SFS, 14M, SELF SUPPORT, SINGLE CIRCUIT
MEDIUM & HEAVY ANGLE STRUCTURES, 16°-90°

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14SFS – 14 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 42
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.040A-OC14SFS,14M, SELF SUPPORT, S.C. MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° FOR MERLIN MAIN CONDUCTOR

Saudi Electricity Company الشركة السعودية للكهرباء

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02	2	Crossarm – L 100x100x12x2400mm L.G.	20–SDMS–02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20–SDMS–02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20–SDMS–02	Fig. 04
05	1	Line Post Insulator	15–SDMS–01	Clause 4.2.8
06	6 Set	Suspension Insulator	15–SDMS–01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20–SDMS–02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20–SDMS–02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20–SDMS–02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20–SDMS–02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20–SDMS–02	Fig. 30
12	6	Strain Clamp, 3 U–Bolts Type for Quail	20–SDMS–02	Fig. 29
13	6	Anchor Shackle	20–SDMS–02	Fig. 20
14	6	Clevis Eye Extension	20–SDMS–02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20–SDMS–02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20–SDMS–02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20–SDMS–02	Fig. 07
18	1	Eye Nut For M20	20–SDMS–02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20–SDMS–02	Fig. 49/50
20	29M	Anti–Climbing Device, Barbed Wire	20–SDMS–02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20–SDMS–02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20–SDMS–02	Fig. 51
23	1 Set	Pole Numbering Plates	20–SDMS–02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.040B–OC14SFS, 14M, SELF SUPPORT, S.C. MEDIUM & HEAVY ANGLE STRUCTURE 16°–90° FOR QUAIL MAIN CONDUCTOR

DRW.041–OC14SFS, 14M, SELF SUPPORT, S.C. SECTION STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
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02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Merlin 170.5mm2 ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.041A-OC14SFS, 14M, SELF SUPPORT, S.C. SECTION STRUCTURE FOR MERLIN MAIN CONDUCTOR

Saudi Electricity Company الشركة السعودية للكهرباء

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03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.041B-OC14SFS, 14M, SELF SUPPORT, S.C. SECTION STRUCTURE FOR QUAIL MAIN CONDUCTOR

DRW.042-OC14SFS, 14M, SELF SUPPORT, S.C. TERMINAL STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14SFS – 14 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 42
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x365mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
18	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
19	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
20	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
21	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.042A-OC14SFS, 14M, SELF SUPPORT, S.C. TERMINAL STRUCTURE FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
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02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x365mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
18	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
19	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
20	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
21	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.042B-OC14SFS, 14M, SELF SUPPORT, S.C. TERMINAL STRUCTURE FOR QUAIL MAIN CONDUCTOR

DRW.043–OC14SFS, 14M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14SFS – 14 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 42
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x365mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	3	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm ACSR/AW, MERLIN		

DRW.043A-OC14SFS, 14M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE FOR MERLIN MAIN & MERLIN

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14SFS – 14 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 42
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x365mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	3	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.043B-OC14SFS, 14M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE FOR QUAIL MAIN & QUAIL

1125 1125

50

550

1200

50

9 6 7

10 11 6

2

10 4 3 11

3 4 11

5

5

12 8 12

1 1

DRW.044-OC15SFS, 15M, SELF SUPPORT S.C. LIGHT ANGLE STRUC. 6°-15°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS−01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS – 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20–SDMS–01	Page 43
02	1	Crossarm – L 100x100x12x2400mm L.G.	20–SDMS–02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20–SDMS–02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20–SDMS–02	Fig. 04
05	1	Earthwire Support Plate	20–SDMS–02	Fig. 06
06	3	Line Post Insulator	15–SDMS–01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20–SDMS–02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20–SDMS–02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20–SDMS–02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20–SDMS–02	Fig. 15
11	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20–SDMS–02	Fig. 15
12	1	Machine Bolt, M20x365mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20–SDMS–02	Fig. 15
13	1 Set	Danger Sign Plate Complete With Its Accessories	20–SDMS–02	Fig. 49/50
14	31M	Anti–Climbing Device, Barbed Wire	20–SDMS–02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20–SDMS–02	Fig. 13
16	1 Set	Pole Numbering Base Plate	20–SDMS–02	Fig. 51
17	1 Set	Pole Numbering Plates	20–SDMS–02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.044A–OC15SFS, 15M, SELF SUPPORT, S.C. LIGHT ANGLE STRUC. 6°–15°
FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS – 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 43
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x365mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
14	31M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
16	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
17	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.044B-OC15SFS, 15M, SELF SUPPORT, S.C. LIGHT ANGLE STRUC. 6°-15° FOR QUAIL MAIN CONDUCTOR

DRW:045–0C15SFS, 15M, SELF SUPPORT, SINGLE CIRCUIT
MEDIUM & HEAVY ANGLE STRUCTURES, 16°–90°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS - 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 43
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	31M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.045A-OC15SFS,15M, SELF SUPPORT, S.C. MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS - 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 43
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	31M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.045B-OC15SFS, 15M, SELF SUPPORT, S.C. MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° FOR QUAIL MAIN CONDUCTOR

DRW.046-OC15SFS, 15M, SELF SUPPORT, S.C. SECTION STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS – 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 43
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Merlin 170.5mm2 ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	31M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.046A-OC15SFS, 15M, SELF SUPPORT, S.C. SECTION STRUCTURE FOR MERLIN MAIN CONDUCTOR

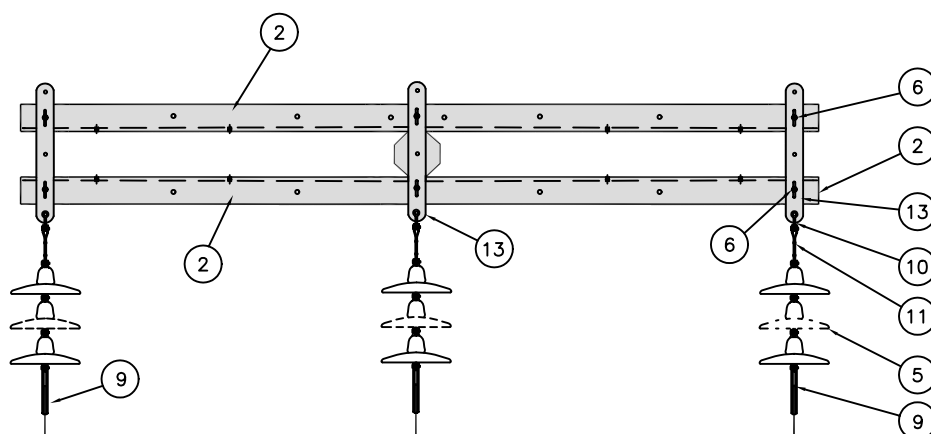
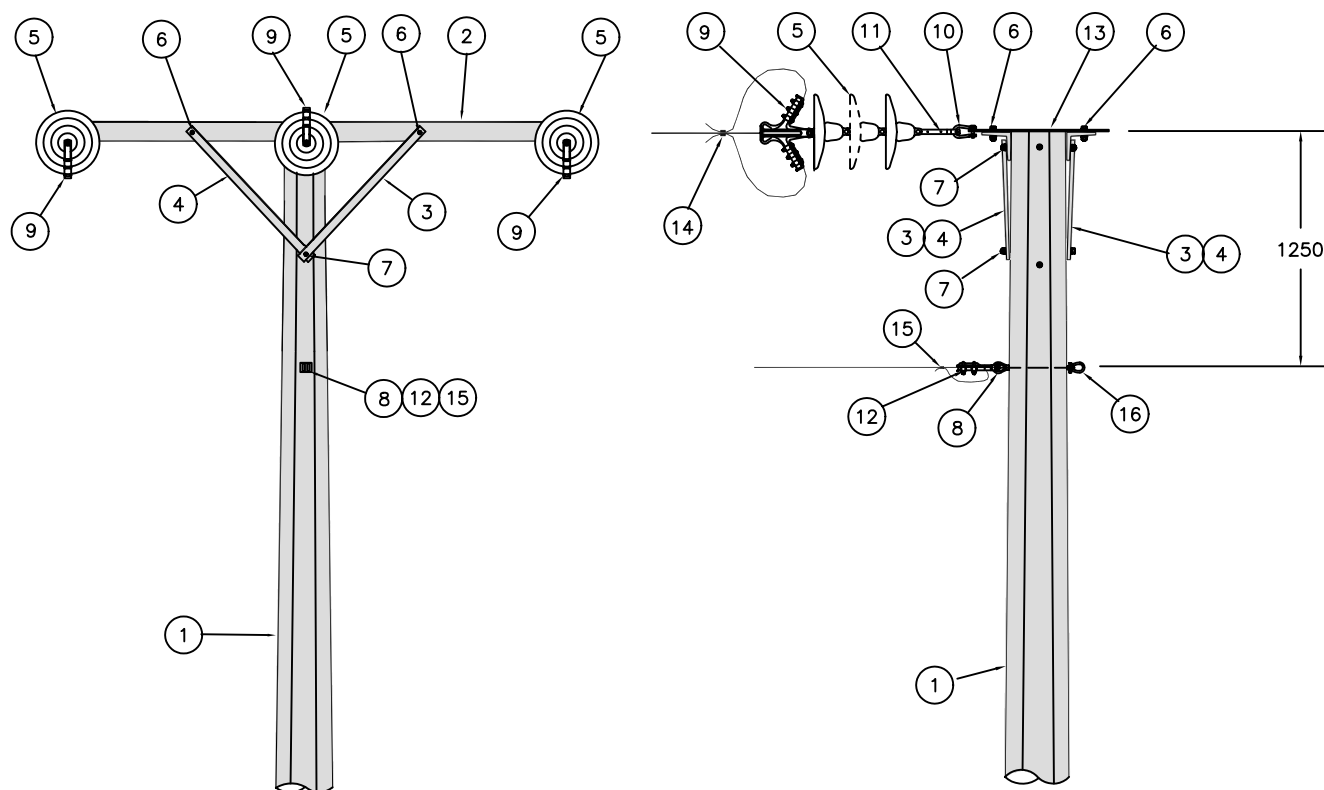
Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: NOVEMBER 2004

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS – 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 43
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.4mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 29
13	6	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x365mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For Quail ACSR/AW	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
20	31M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
21	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
22	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
23	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.046B-OC15SFS, 15M, SELF SUPPORT, S.C. SECTION STRUCTURE FOR QUAIL MAIN CONDUCTOR

DRW.047–OC15SFS, 15M, SELF SUPPORT, S.C. TERMINAL STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS – 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 43
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x365mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
18	31M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
19	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
20	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
21	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.047A-OC15SFS, 15M, SELF SUPPORT, S.C. TERMINAL STRUCTURE FOR MERLIN MAIN CONDUCTOR

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS – 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 43
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	2	Machine Bolt, M20x310mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
09	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
10	3	Anchor Shackle	20-SDMS-02	Fig. 20
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	1	Shoulder Eye Bolt, M20x365mm, W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig.
16	1	Eye Nut for M20	20-SDMS-02	Fig. 19
17	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
18	31M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
19	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
20	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
21	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.047B-OC15SFS, 15M, SELF SUPPORT, S.C. TERMINAL STRUCTURE FOR QUAIL MAIN CONDUCTOR

DRW.048-OC15SFS, 15M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS – 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 43
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x365mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	3	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	31M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm ACSR/AW, MERLIN		

DRW.048A-OC15SFS, 15M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE FOR MERLIN MAIN & MERLIN

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15SFS – 15 Meter Steel Pole, Self Support, HDG, Single Circuit	20-SDMS-01	Page 43
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x365mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	8	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	3	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig.07
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	31M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.048B-OC15SFS, 15M, SELF SUPPORT, S.C. DOUBLE TERMINAL AT 90° STRUCTURE FOR QUAIL MAIN & QUAIL